

# Comparisons of Job Characteristics

**Focus Occupation:** [Computer Specialists, All Other \(15-1099\)](#)

**Associated Occupation:** [Computer Software Engineers, Systems Software \(15-1032\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

## Knowledge

Similarity of Focus Occupation to Associated Occupation: 97

**Focus Occupation:** Computer Specialists, All Other (15-1099)

**Associated Occupation:** Computer Software Engineers, Systems Software (15-1032)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Computers and Electronics	8.4	23.1	19.7	<< Extensive education and/or training may be required
Engineering and Technology	5.7	14.6	11.5	<< Extensive education and/or training may be required
Customer and Personal Service	11.3	11.8	11.3	0 Current knowledge level may be sufficient
Design	5.2	10.9	11.1	0 Current knowledge level may be sufficient
Telecommunications	3.9	8.3	9.0	0 Current knowledge level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Skills

Similarity of Focus Occupation to Associated Occupation: 95

**Focus Occupation:** Computer Specialists, All Other (15-1099)

**Associated Occupation:** Computer Software Engineers, Systems Software (15-1032)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Programming	2.2	12.6	10.0	< A higher skill level may be required
Operations Analysis	5.0	12.0	12.0	0 Current skill level may be sufficient
Systems Evaluation	6.4	10.7	11.1	0 Current skill level may be sufficient
Systems Analysis	6.5	10.2	10.6	0 Current skill level may be sufficient
Technology Design	2.6	8.1	6.6	< A higher skill level may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Abilities

Similarity of Focus Occupation to Associated Occupation: 98

Focus Occupation: Computer Specialists, All Other (15-1099)

Associated Occupation: Computer Software Engineers, Systems Software (15-1032)

Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Oral Comprehension	12.5	14.5	13.6	0	Current ability level may be sufficient
Written Comprehension	11.0	13.8	13.3	0	Current ability level may be sufficient
Deductive Reasoning	10.6	12.6	12.8	0	Current ability level may be sufficient
Written Expression	9.8	12.3	12.7	0	Current ability level may be sufficient
Inductive Reasoning	10.2	11.8	11.9	0	Current ability level may be sufficient
Information Ordering	9.9	11.4	11.7	0	Current ability level may be sufficient
Mathematical Reasoning	6.3	9.8	8.2	<	Some improvement in abilities may be required
Originality	7.6	9.3	9.8	0	Current ability level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

There are no common work activities.

## Tools and Technologies that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 89

Focus Occupation: Computer Specialists, All Other (15-1099)

Associated Occupation: Computer Software Engineers, Systems Software (15-1032)

Tools and Technologies	Exclusivity
Business function specific software	1
Computers	1
Content authoring and editing software	1
Content management software	6
Data management and query software	1
Development software	4
Electronic and communication measuring and testing instruments	14
Industry specific software	1
Information exchange software	1
Network applications software	1
Network management software	37
Networking software	21
Operating environment software	12
Security and protection software	30
System boards processors interfaces or modules	56
Utility and device driver software	17

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.